WHAT IS CLAIMED IS:

1. A slitting method for manufacturing a battery separator-use resin film object comprising the steps of: providing a slitting device comprising a feeding roll for feeding a film object from a scrolled film object with its rotational velocity being controlled; a slitting blade for slitting said film object so as to have a predetermined width; a sensor for detecting a tension of said film object and a wind-up roll for winding up said film object while controlling the tension of said film object, and slitting said film object by using said slitting device in a manner so as to satisfy the following conditions 1 and 2:

(Condition 1) $5\times9.8\times10^4 \leqq T/L \leqq 5\times9.8\times10^5$

(Condition 2) $1 \leqq R/T \leqq 5$

where L is a thickness (m) of said film object, R is a rotational velocity (m/min) of said feeding roll and T is a tension (N/m) of said film object after having been subjected to the slitting operation.

2. The slitting method of a battery separator-use resin film object according to claim 1, wherein said slitting operation is carried out in a manner so as to satisfy the following condition 3:

(Condition 3) $1\times10^8 \geqq E/T \geqq 4\times10^7$

where E is a modulus of elasticity (N/m^2) of said film object and T is a tension (N/m) of said film object after having been subjected to the slitting operation.

3. The slitting method of a battery separator-use resin film object according to claim 1 or 2, wherein: said slitting blade is a razor blade and an angle D (°) made by said razor blade and said film object and a thickness L

(m) of said film object has a relationship that satisfy the following condition 4:

(Condition 4) $5 \times 10^5 \leqq L/D \leqq 1 \times 10^6$

4. A battery separator-use resin film object obtained by using the slitting method according to any one of claims 1 to 3.